• COLORADO RIVER •

AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Vol. V FEBRUARY 25, 1938 No. 4

A view of the Gene Wash dam and reservoir site taken from the top of the Gene pump lift.

· COLORADO RIVER ·
AQUEDUCT NEWS
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
306 West Third St.
Los Angeles, California

Published twice monthly in the interest of Field and Office Workers on the Colorado River Aqueduct, and for the information of all other citizens of the Metropolitan Water District.

Vol. V February 25, 1938 No. 4

Bids Called For On Distribution System Headworks Structure

Construction of one of the important operating features of the aqueduct will be set under way in the near future as a result of a call for bids for the headworks of the distributing system.

Bids are to be opened on March 15, under Specifications No. 272, for the construction of the structure which will be located at the north portal of the outlet tunnel on the outside of the Cajalco Reservoir.

The structure, which will have a total length of 541 feet, will be located at the beginning of the distributing system and will regulate and control the flow of water into the system. The structure provides a connection to the present Upper Feeder and also provides for a connection for a line that may be built in a future development of the distributing system.

The principal features of the headworks consist of a valve structure at the portal of the Cajalco outlet tunnel, a basin or forebay, a forebay outlet structure and a connection with the Upper Feeder running through a venturi meter. The valve structure at the end of the 14-foot diameter Cajalco outlet tunnel will have butterfly valves for shut-off purposes and horizontal cylinder valves for regulating purposes.

The forebay in the headworks will be approximately 260 feet square at the top, with the sides tapering toward the center, and will have a maximum depth of 55 feet. The entire forebay will be lined with concrete slab. Slide gates on the downstream side of this forebay will regulate the water flowing into the distributing system.

The specifications provide that work shall be completed by December 31, 1938. Approximate quantities in the specifications include 110,000 cubic yards of excavation.

This desert sunset stirred the artistic blood of M.W.D. photographer Will Fox, and the result was this interesting picture of the Colorado River just above the Parker Bridge.

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PUMPING PLANTS

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Iron Mt.....B. H. Martin
Eagle Mt. and Hayfield.....R. C. Booth

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(Main Aqueduct Tunnels)

San Jacinto Tunnel, District Force Acct., B. C. Leadbetter, Gen. Supt.; S. J. Shrode, John Austin and C. E. Sides, Tunnel Supts.; Chas. F. Thomas, Jr., Edwin Noon, Supts.; F. A. Backman, Gen. Foreman.

(Distribution Tunnels)

Monrovia Tunnels Nos. 1, 2 and 3, West Construction Co., H. E. Carleton, Gen. Supt.; E. M. Penn, Concrete Supt.

Monrovia Tunnel No. 4, L. E. Dixon Co., Bent Bros., Inc., and Johnson, Inc., W. N. Evans, Supt.

(Canal, Siphon, Conduit)

Schedules Nos. 14, 15 and 16, Thompson - Starrett Co., Inc., Rodney Smith, Gen. Supt.; V. H. Wiese, Engineer.

Schedules Nos. 18, 19 and 20, J. F. Shea Co., Inc., J. G. Shea, Gen. Mgr.; H. F. Rennebohm, Supt.

(Distribution Pipe Line)

Schedules 6P and 7P, J. F. Shea Co., Inc., J. F. Shea, Gen. Mgr.; Ed. H. Shea, Gen. Supt.

Schedule 9P, 10P, 11P, United Concrete Pipe Corp., John Huber, Plant Supt.; Roy Richards, Construction Supt.

Schedules 8C, 9C, 12C, Basich Bros.; Dick Noble, Supt.

Schedule 21SC, 22SC, 23SC, J. F. Shea Co., Gilbert J. Shea, Supt.

(Dams)

Cajalco dam, The Griffith Co., Franz Fohl, Gen. Supt.

Parker Dam, J. F. Shea Co., Frank Crowe, Gen. Supt., H. P. Bunger, Constr. Eng., U.S.B.R.

Gene Wash dam, Copper Basin dam, J. F. Shea Co., Frank Crowe, Gen. Supt.

(Pumping Plants)

Intake and Gene, Winston Bros. and Crowell, R. A. Crowell, Supt.; F. T. Hillman, Engr.

Eagle Mountain, L. E. Dixon Co.; J. H. Larkin, Supt.

Hayfield, Dixon and Case; Crawford Strohacker, Supt.

Welder in Monrovia tunnel No. 4 arc-welding joint between two sections of the steel liner in the tunnel. Installation of the steel cylinders was completed on February 22.

Concrete Placed In Gene Dam

Construction work on the Gene Wash dam, a long range view of which is shown on the cover of this issue, is practically completed. Placing of the mass concrete in the structure was completed by the end of January, at which time 14,082 cubic yards of concrete had been placed in the structure, which has a maximum height of 138 feet. At the present time concrete is being placed in the parapet wall along the crest of the dam, and in the gate house structure.

Work was started March 29, 1937, on this dam which is located near Division 1 headquarters and which will form the Gene Wash reservoir, one of the operating reservoirs on the main aqueduct. The placing of concrete in the structure was pushed at a rapid rate, this part of the job having only been started on the 23rd of October, 1937.

The dam, which is constructed under Schedule 1 of Specifications No. 190, is being built by the J. F. Shea Co. under the same contract which includes the construction of the Copper Basin Dam. The schedule also includes the construction of a spillway and a dike.

The work at both the Gene Wash and Copper Basin dams is under the direction of Division Engineer W. E. Whittier, and under the general supervision of Frank Crowe, General Superintendent for the Shea Co.

Aqueduct Conduits Nearly Completed

With all canal work completed, and all tunnels except San Jacinto now on the completed side of the record, work on the conduits—the third principal type of water carrier on the main aqueduct—is also rapidly coming to a close.

The two remaining conduit schedules, Nos. 16 and 19, being built by Thompson-Starrett and J. F. Shea respectively, are both more than 95 per cent completed. Schedule 16, which is in Division 4 and is being built under the direction of Division Engineer O. J. Schieber, consists of 17,139 feet of concrete conduit in the vicinity of the Mecca Pass tunnels. On February 19 more than 16,300 feet of the concrete had been placed, and less than 500 feet of the excavation remained to be completed. The caption under the picture showing conduit work in this schedule which appeared in the February 10 issue of the NEWS listed a progress of 600 feet per week for placing of arch. However, for a period of more than two months this same equipment had placed conduit at the rate of 210 feet per day.

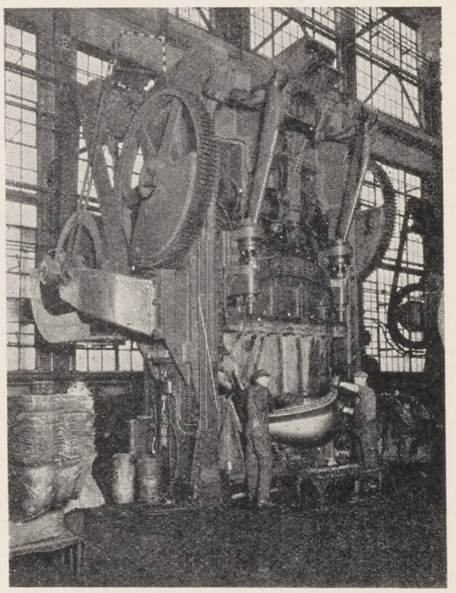
Down on Division 5, all excavation for Schedule 19, which is 34,870 feet long, has been completed with the exception of the highway and railroad crossings south of Cabazon.

Cajalco Reservoir Accepted by M.W.D.

Construction of the 100,000-acre-foot capacity Cajalco Reservoir was officially completed when the District accepted the work on February 11, 1938. Work on the reservoir was one of the spectacular features of the aqueduct and attracted hundreds of visitors during the two-year period that the construction activities were at their height. One of the largest earth moving jobs in the southwest, the dam and dike of the reservoir contain approximately 7,000,000 cubic yards of compacted earth. At one time the Griffith Co., the contractor on the job, was moving more than 100,000 cubic yards of earth per week.

Metal Congress To Meet in Los Angeles

Engineers and aqueduckers generally will be interested in the exhibits to be on display at the Pan-Pacific Auditorium from March 21 to 25 during the period Western Metal Congress holds its meeting in Los Angeles. A special invitation has been extended to General Manager Weymouth and aqueduct employees to attend the congress and the exhibits, which are educational in character and are presented by eighteen national technical societies.



The Western Metals Congress, to which aqueduckers have been invited, will display many machines such as this giant fender press. The exhibit will be from March 21 to 25 in the Pan-Pacific Auditorium in Los Angeles.

TUNNELS

January 16 to February 15, 1938

TUNNEL EXCAVATION (MILES)

	Completed	Remaining
Aqueduct	89.36	2.75
Distribution	16.20	0
Total	105.56	2.75

TUNNEL LINING (MILES)

	Completed	Remaining
Aqueduct	85.27	6.84
Distribution	15.34	0.81
Total	101.61	7.65

AQUEDUCT

CONTRACTOR	TUNNEL	LENGTH IN FEET	EXCAVATION IN FEET: NUMBER OF SHIFTS	AVERAGE PER SHIFT	THIS PERIOD	TOTAL TO DATE	REMAINING	LINING IN FEET: ARCH OR INVERT	NUMBER OF SHIFTS	AVERAGE PER SHIFT	THIS PERIOD	TOTAL TO DATE	REMAINING
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	SAN JACINTO	(68,843)	(372)	(3.9)	(1,456)	(54,304)	(14,539)				*(3,197)	(32,760)	(36,083)
	Cabazon Shaft to East Portal	8,880		Completed		8,880	0	Arch	0	0	0	8,484	396
								Invert	0	0	0	8,484	396
	Cabazon to Lawrence	26,809	93	9.5	881	20,626	5,940	Arch	38	43.7	1,661	6,973	19,836
	Lawrence to Cabazon		93	2.3	217	243		Invert	26	158.3	4,117	6,972	19,837
	Lawrence to Potrero	17,672	93	2.3	210	276	8,599						
	Potrero to Lawrence		93	1.6	148	8,797		Arch	25	52.3	1,307	2,104	15,568
								Invert	0	0	0	2,811	14,861
	Potrero Shaft to West Portal	15,482		Completed		15,482	0	Arch	0	0	0	14,953	529
								Invert	0	0	0	15,482	0
	Lawrence Adit	5.664		Completed		5,664	0						
	Cabazon Pioneer			Suspended		7,274							
	Potrero Pioneer			Suspended		5,571							
	TOTALS Ft.	68,843	372	3.9	1,456	54,304	14,539	Arch	63	47.1	2,968	32,514	36,329
	Miles	(13.04)			(0.27)	(10.29)	(2.75)	Invert	25	52.3	4,117	33,749	35,094

DISTRIBUTION

GRIFFITH CO.	CAJALCO OUTLET	2,368		Completed		2,368	0				Completed	2,341	0
WEST CONSTRUCTION CO.	MONROVIA NO. 1 (FromW.P.)	7,868		Completed		7,868	0				Completed	7,796	0
	MONROVIA NO. 2 (FromJct.1)	940		Completed		940	0				Completed	856	0
	MONROVIA NO. 3	(32,105)		Completed		(32,105)	(0)				*(3,701)	(28,046)	(4,049)
	East from Adit	11,340				11,340	0	Full Sec.			0	12,279	
	West from Adit					5,913		Invert			0	19,352	464
	From West Portal	20,765				14,851	0	Arch	78	59	4,626	14,871	4,945
DIXON, BENT BROS. & JOHNSON	MONROVIA NO. 4 (FromW.P.)	8,133		Completed		8,133	0		78	13.8	1,077	7,881	252
	SAN RAFAEL No.1 (FromW.P.)	4,047		Completed		4,047	0			Completed		4,028	0
	SAN RAFAEL No. 2 (FromE.P.)	5,669		Completed		5,669	0			Completed		5,661	0
	TOTALS Ft.	61,130				61,130	0	Full	156	30.6	4,778	56,609	4,301
	Miles	(11.58)				(11.58)	0	Section			(0.91)	(10.72)	(0.81)

*Invert considered to equal 0.2 and arch 0.8 of completed section.

Miscellaneous Construction

January 30, 1937, to February 12, 1938

AQUEDUCT PUMPING PLANTS AND APPURTENANT WORKS

CONTRACTOR	FEATURES	EXCAVATION—Cu. Yds.: Est. Quan.	Period	To Date	%	CONCRETE—Cu. Yds.: Est. Quan.	Period	To Date	%	STEEL—Tons: Est. Quan.	Period	To Date	%
WINSTON BROS. CO. & WILLIAM C. CROWELL	Intake Plant	115,600	0	115,600	100	23,502	280	23,392	99	1,829	21.6	1,809.5	99
	Gene Plant	176,211	0	176,211	100	23,800	0	23,800	100	2,844	0	2,829.5	99
WOOD AND BEVANDA	Iron Mt. Plant	354,909	0	354,909	100	22,942	0	22,942	100	1,796	0	1,795.7	100
L. E. DIXON CO.	Eagle Plant	270,177	0	265,170	98	28,010	378	27,802	99	2,314	147.7	2,187.8	95
L. E. Dixon & Case Const. Co.	Hayfield Plant	351,884	0	350,721	99	37,208	1,136	31,161	84	3,415	88.5	2,275.9	67
	TOTALS	1,268,781	0	1,262,611		135,462	1,794	129,097		12,198	257.8	10,898.4	

PARKER RESERVOIR—SIX COMPANIES, INC.

FEATURES	Est. Quan.	Period	To Date	Percent
Diversion Tunnels—Excav.	3,463 Ft.	0	3,463	100
Diversion Tunnels—Concrete	3,363 Ft.	0	3,363	100
Cofferdams—Excav.	227,582 C.Y.	0	227,582	100
Cofferdams—Fill	464,890 C.Y.	0	464,890	100
Outlet Works—Excav.	220,000 C.Y.	0	207,176	94
Outlet Works—Concrete	5,000 C.Y.	0	3,844	77
Dam—Excavation	1,510,200 C.Y.	0	1,508,105	99
Dam—Concrete	297,900 C.Y.	4,914	274,404	91
Power House—Excav.	58,000 C.Y.	0	56,700	98
Power House—Concrete	14,000 C.Y.	916	12,063	86

CAJALCO RESERVOIR—GRIFFITH COMPANY

FEATURES	Est. Quan.	Period	To Date	Percent
Diversion Tunnel	2,000 Ft.	0	2,000	100
Outlet App. Channel—Exc.	201,160 C.Y.	0	201,160	100
Outlet Tower—Concrete	3,250 C.Y.	0	3,250	100
Dam & Spillway—Exc.	701,725 C.Y.	0	701,725	100
Dam—Fill	3,135,560 C.Y.	0	3,135,560	100
Dam & Spillway—Concrete	27,025 C.Y.	0	27,025	100
Dike—Excavation	13,950 C.Y.	0	13,950	100
Dike—Fill	3,878,680 C.Y.	0	3,878,680	100
Dike—Concrete	44,165 C.Y.	0	44,165	100

GENE WASH RESERVOIR—J. F. SHEA CO., INC.

FEATURES	Est. Quan.	Period	To Date	Percent
Dam—Excavation	7,500	0	7,500	100
Dam—Concrete	14,339 C.Y.	143	14,091	98
Spillway—Excavation	4,762 C.Y.	0	4,762	100
Spillway—Concrete	4,713 C.Y.	0	4,762	100
Dike—Excavation	4,600 C.Y.	0	1,840	46
Dike—Fill	10,500 C.Y.			
Dike—Concrete	1,200 C.Y.	0	200	17

COPPER BASIN RESERVOIR—J. F. SHEA CO., INC.

FEATURES	Est. Quan.	Period	To Date	Percent
Dam—Excavation	8,700 C.Y.	0	8,700	100
Dam—Concrete	16,275 C.Y.	948	1,708	11
Spillway—Excavation	6,700 C.Y.	0	6,000	89
Spillway—Concrete	1,000 C.Y.			
Outlet Works—Excavation	Lump Sum	2%	21%	21
Gate House Superstructure				
Clearing Reservoir Site	427 Ac.	13	338	78

TION PROGRESS

CANAL, CONDUIT, SIPHON & PIPE LINES

January 30 to February 12, 1938

CANAL, CONDUIT AND SIPHON (MILES)

	Completed	Remaining
Excavation	145.43	0.18
Concrete	143.59	0.97
Back Fill	77.62	3.22

DISTRIBUTION PIPE LINE (MILES)

	Completed	Remaining
Excavation	46.23	17.46
Concrete	46.09	17.60
Back Fill	46.03	17.66

AQUEDUCT

SCHED. NO.	CONTRACTOR	FEATURES	Length In Feet	EXCAVATION—Feet			CONCRETE—Feet			BACKFILL—Feet		
				Period	To Date	Remain'g	Period	To Date	Remain'g	Period	To Date	Remain'g
14	THOMPSON-STARRETT CO.	Conduit and Siphons	32,366	0	32,366	0	0	32,366	0	0	32,366	0
15		Conduit and Siphons	35,849	0	35,849	0	0	35,849	0	0	35,849	0
16		Conduit and Siphons	19,346	1,090	18,747	599	1,533	17,279	2,067	633	13,642	5,704
18	J. F. SHEA CO., INC.	Conduit and Siphons	27,537	0	27,537	0	0	27,537	0	0	27,327	210
19	J. F. SHEA CO., INC.	Conduit and Siphons	37,105	100	36,814	291	2,342	34,807	2.298	550	27,109	9,996
20		Siphons	18,618	0	18,618	0	0	18,618	0	0	18,618	0
20 A & B	M. W. D.—FORCE ACCT.	Siphons	752	0	705	47	0	0	752	0	0	752
3	WINSTON BROS. CO.	Siphon (Gene Inlet)	1,877	0	1,877	0		1,877	0	0	1,478	320
4	& WILLIAM C. CROWELL	Siphon (Copper Basin)	450	0	450	0	0	450	0	0	0	0
	TOTALS		173,900	1190	172,963	937	3,875	168,783	5,117	1,183	156,389	16,982

DISTRIBUTION PIPE LINES

6-P	J. F. SHEA CO., Inc.	Precast Concrete Pipe	27,294	0	27,294	0	0	27,294	0	0	27,294	0
7-P			30,044	0	30,044	0	0	30,044	0	0	30,044	0
9-P	UNITED CONC. PIPE CORP.	Precast Concrete Pipe	8,697	0	8,388	309	0	8,388	309	0	8,388	309
10-P			10,517	0	10,517	0	0	10,517	0	0	10,517	0
11-P			4,105	0	4,105	0	0	4,105	0	0	4,105	0
8C-9C-12C	BASICH BROTHERS	Cast-in-Place Conc. Pipe	1,656	0	864	792	30	673	983	0	480	1,176
21SC	J. F. SHEA CO., Inc.	Welded Steel Pipe	28,930	0	0	28,930	0	0	28,930	0	0	28,930
22SC			28,310	0	0	28,310	0	0	28,310	0	0	28,310
23SC			34,470	315	585	33,885	90	90	34,380	0	0	34,470
	TOTALS		174,023	315	81,797	92,226	120	81,111	92,912	0	80,828	93,195

COMPLETED FEATURES

TUNNELS

	CONTRACTOR	TUNNEL	Length in Miles	Work Started	Work Completed
AQUEDUCT	MORRISON-KNUDSEN CO.	Mecca Pass, No. 1, 2 & 3	1.13	7-17-33	2-10-35
	WEST CONSTRUCTION CO.	Whitewater Nos. 1 & 2	1.94	7-18-33	4-15-35
	SHOFNER & GORDON	Hayfield No. 2	1.03	7-8-33	7-27-35
	HAMILTON & GLEASON	Bernasconi	1.18	4-19-33	11-21-35
	J. F. SHEA CO., INC.	Cottonwood	3.81	6-14-33	12-29-35
	HUNKIN-CONKEY CON. CO.	Hayfield No. 1	1.84	10-21-33	1-9-36
	DIXON & BENT BROS.	W. Eagle—West Portion	2.02	9-8-33	3-12-36
	DRAVO CONTRACTING CO.	Valverde	7.20	6-7-33	10-18-36
	WALSH CONSTRUCTION CO.	Colorado River	1.04	3-2-34	1-29-36
	WALSH CONSTRUCTION CO.	Copper Basin Nos. 1 & 2	2.32	10-4-33	2-20-36
	WALSH CONSTRUCTION CO.	Whipple Mountain	6.11	8-25-33	1-26-37
	UTAH CONSTRUCTION CO.	IronMt.—West Portion	3.07	5-15-33	10-23-36
	WINSTON BROS. CO.	Iron Mt.—East Portion	4.48	8-9-33	10-30-36
	METRO. WATER DIST.	1000 Palms No. 1	3.04	1-25-33	1-7-37
	" " "	1000 Palms No. 2	0.73	2-24-33	12-19-35
	" " "	Wide Canyon No. 1	2.71	3-31-33	2-11-37
	" " "	Wide Canyon No. 2	0.16	3-24-33	2-12-37
	" " "	Seven Palms	3.17	4-27-33	2-2-37
	" " "	Long Canyon	2.90	3-6-34	12-31-36
	" " "	Blind Canyon	1.29	3-22-34	12-3-36
	" " "	Morongo No. 1	1.08	4-21-34	1-20-37
	" " "	Morongo No. 2	0.36	12-29-34	1-5-37
	BRODERICK & GORDON	West Eagle Mt.—E. Portion	3.00	2-8-34	5-6-37
	WINSTON BROS.	Coxcomb	3.37	9-15-33	4-26-37
	METRO. WATER DIST.	East Coachella	18.30	1-25-33	5-8-37
	BRODERICK & GORDON	East Eagle Mt.	1.79	6-8-34	7-23-37
		TOTALS	79.07		
DISTRIBUTION	J. F. SHEA CO., INC.	Sierra Madre	1.27	9-1-35	10-31-36
	DIXON, BENT BROS. & JOHNSON	Pasadena Extension	1.05	10-5-35	11-24-36
	DIXON, BENT BROS. & JOHNSON	Pasadena	2.30	2-11-35	4-29-37
	GRIFFITH COMPANY	Cajalco Outlet	0.45	11-12-35	2-11-38
		TOTALS	5.07		

CANAL, CONDUIT, SIPHON, AND PIPE LINES

	CONTRACTOR	FEATURE AND NAME OR SCHEDULE	Length in Miles	Work Started	Work Completed
AQUEDUCT	UNITED CONCRETE PIPE CORP.	Little Morongo Siphon	0.13	2-27-34	8-20-34
	METRO. WATER DIS.	Fan Hill Conduit and Siphon	0.32	10-21-33	11-19-34
	MORRISON-KNUDSEN CO.	Sch. No. 18-J, Big Morongo and San Andreas Siphon	1.86	2-12-35	9-16-36
	GRIFFITH COMPANY	Sch. No. 20-C, 21, 22, 23 & 23-A	12.79	1-5-35	10-13-36
	JAHN & BRESSI CONST. CO.	Sch. No. 5, Canal and Siphons	10.15	12-18-34	11-17-36
	JAHN & BRESSI CONST. CO.	Sch. No. 4, Canal and Siphons	10.08	6-6-35	3-18-37
	UTAH CONSTRUCTION CO.	Sch. No. 9, Canal, Conduit & Sip.	8.97	12-12-34	5-15-37
	BARRETT-HILP & MACCO CORP.	Sch. No. 2, 3, 7, Canal, Con. & Sip.	18.71	12-3-34	5-25-37
	METRO. WATER DIST.	Sch. No. 17, Conduit and Siphons	4.16	9-9-35	6-15-37
	AQUEDUCT CONST. CO	Sch. No. 1,10,11,13 Canal, Con. & S.	26.99	1-24-35	6-24-37
	WOOD & BEVANDA	Sch. No. 6, 8, Canal & Siphons	12.28	11-27-34	7-28-37
	THREE COMPANIES, INC.	Sch. No. 12, Conduit & Siphons	6.24	1-8-35	11-6-37
		TOTALS	112.68		
DISTRIBUTION	UNITED CONCRETE PIPE CORP.	Sch. No. 8P, Precast Concrete Pipe	4.65	2-21-36	3-20-37
	WESTERN PIPE & STEEL CO.	Sch. No. 2S, 2B, Welded Steel Pipe	10.33	4-8-36	11-24-37
	AMER. CONC. & STEEL PIPE CO.	Sch. No. 1, 3, 4, 5, Precast Conc. Pipe	15.75	2-20-36	12-23-37
		TOTALS	30.73		

Flooding of Parker Reservoir To Begin About April 1

The construction scene at Parker Dam today is far different than it was seven months ago when the principal view was that of a great hole in the river bed which resembled a man-made Grand Canyon. Along with a number of other features described in this issue of the NEWS, Parker Dam is rapidly nearing completion. It is so nearly completed in fact, that the Bureau of Reclamation expects to start flooding the reservoir basin back of the dam within the next six weeks.

On February 19, concrete placed in Parker Dam amounted to 277,639 cubic yards, or about 93 per cent of the required concrete. On that date the highest point in the dam was at Elevation 455, which is at the roadway crossing the crest, and which is 320 feet above the lowest point in the foundation.

Field Party Opens '38 Social Season

Southern California's 1938 social season, which the average uninformed person mistakenly believed started in Hollywood on New Year's Eve, finally got off to a flying start at the Field Party which was attended by more than 450 aqueduckers and their families and friends.

Held in the ballroom of the beautiful Lake Norconian Hotel, the dinner and dance sponsored by the Field Forces lived up to all of its advance predictions. Present aqueduckers and past aqueduckers came from far and near to take part in the festivities. Of the graduate group of aqueduckers, one group came clear from San Diego to the party, while the Division 1 socialites who made a round trip of better than 450 miles to make whoopee took the record for greatest distance traveled by present aqueduct employees. Judging by reports heard all the way from the river to the sea on the following Sunday, the party was indeed a howling success.

SAFETY FLAG AWARDS

San Jacinto Tunnel

The safety flag award for the lowest lost-time accident frequency in tunnel excavation for the month of January was awarded to Cabazon. During the same period East Portal was awarded the safety award for the best safety record in tunnel concreting.

MONTHLY REPORT REVIEWS ACTIVITIES ALONG THE AQUEDUCT LINE

(EDITOR'S NOTE: The following is a brief summary of some of the activities of the District as set forth in the monthly report of General Manager F. E. Weymouth, filed with the Board of Directors in February, covering the work done in January.)

Legal Division

All necessary documents to secure payment for Interim Certificate No. 77, in the denomination of $1,800,000, representing bonds heretofore sold to the R.F.C., were prepared. Payment for this certificate was made on January 17.

Miscellaneous Activities Division

The number of persons visiting and inspecting various features of the aqueduct project was considerably larger during January than in previous months. Two hundred and eighty-seven employment applicants were cleared through the District's Labor Office for work on the aqueduct. Of this number 146 were made available for force account work, and 141 were made available for aqueduct contractors.

Field Engineering and Construction

Safety Engineering — See safety awards, column one.

Operation of Utilities—During the period from December 16 to January 15, power used amounted to 4,559,773 kwhr, 11,465 long distance telephone calls were handled, and 1,457,700 cubic feet of water was delivered.

Aqueduct Construction—The erection of spillway gate No. 1 on the Arizona abutment of Parker Dam was commenced on January 26, and by the end of the month all structural steel for this gate was assembled and riveting started. Main heading excavation in the San Jacinto tunnel was advanced 0.27 miles during the month, making a total of 10.16 miles excavated and leaving 2.88 miles yet to be penetrated.

Civil Engineering Division

Specifications — Bids were received under six sets of specifications during the month of January, and two sets of specifications were issued including No. 268 for installation by District forces of the pumps, motors, and appurtenant equipment at the Intake and Gene pumping plants.

Design—Principal work of the Design Division consisted of the preparation of specifications and drawings for the Cajalco outlet control headworks and for the upper San Gabriel crossing and wasteway. (See story page 2 re headworks.)

Materials—Shipments of cement totaling 117,453 barrels were made to the field. Orders against contracts were placed for 69 tons of billet steel reinforcement bars for Gene Wash and Copper Basin dams.

Distribution Divison

Office and Field Engineering—Test holes were drilled along the line of the Compton and Torrance laterals. Studies were continued relative to the water demand, location and size of laterals, and delivery locations for services to the member cities of the District.

Field Construction—Trench excavation for the Palos Verdes cross-feeder was started at 98th and Wadsworth streets in Los Angeles on January 25. Grading of the Hazel road at Cajalco was practically completed at the end of the month, and all concrete had been placed for the spillway bridge in the reservoir.

Electrical Engineering

Office Engineering — Specifications were issued for indoor disconnecting switches, fuses, oil coolers, concrete finish floors, gages and meters for lubricating oil systems, and motor starters. Inspection was continued at the various plants where equipment for the pumping plants is being manufactured.

Field Construction—See progress tables pages 4 and 5. Concreting of the pump house superstructure at the Intake plant was completed, and the pump building and control room roofs at the Eagle Mountain plant were completed and made ready for tiling.

Personnel Division

Twenty-six classified positions were filled during the month, and 690 changes of status, 135 terminations, and 128 employment contracts were recorded. The net turnover for all positions during December was 3.80 per cent.

Purchasing Division

A total of 1,346 purchase orders was issued, covering purchases amounting to $111,700. Carload forwardings totaled 436, of which 370 were cement.

Accounting and Costkeeping

The total cost of the work accomplished to January 31, 1938, was $156,267,586.